Work Order ID 119494 \*119494\* D3484-041 Page 1 Friday, May 16, 2014 12:51:43 PM B 1 1 9 4 9 4 Accept Item ID: D3484-041 \*N900040100\* Setup Start **Revision ID:** Stop **Item Name:** Tail Light Fairing Assembly, LH \*10\* **Start Date:** 5/30/14 **Start Oty: 10.00 Cust Item ID:** Required Date: 5/30/14 Req'd Oty: 10.00 \*10\* **Customer:** Reference: Start Run Date: W-OS-2Z Tooling: Process Plan: MUJ **Approvals:** Date: Stop QC: SE SPC (Y/N): Date: Date: \*NR2\* Sequence ID/ Operation Set Up/ **Tool ID** Tool # Plan Reject Accept Reject Insp. **Work Center ID Description** Number Code Qty Qty **Run Hours** Stamp **Draw Nbr Revision Nbr** D3484 Rev F 100 0.00 CZ 14/05/23 10 \*100\* Purchasing 0.00 Memo Issue P/O: Purchasing Make as per Dwg D3484 Material release note is required 110 Receive & Inspect for Damage & Mat'l Certs 0.00 \*110\* Packaging 0.00 Memo Packaging 115 Weld per dwg A/R Aluminum rod Batch: 0.00 \*115\* Large Fab 0.00 Memo Large Fab \*\*\*Touch up weld if necessary\*\*\*

DQA:			Date:												
						<b>WORK ORDER NON</b>	I-CO	ONFO	RMANCE / U	PDATE	-		AEROSPAC	∐ ; <i>E</i>	
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0						Rework	-		Skid-tube Machining	Crosstube Small Fab	- Pro	d. Eng. Coor.	Engineering Quality	1	
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Work Order ID 119494 \*119494\* Friday, May 16, 2014 12:51:43 PM D3484-041 **Item ID:** Accept \*N900040100\* Setup Start **Revision ID:** Stop **Item Name:** Tail Light Fairing Assembly, LH \*10\* **Start Oty: 10.00 Start Date:** 5/30/14 **Cust Item ID:** Required Date: 5/30/14 Req'd Qty: 10.00 \*10\* **Customer:** Reference: Start Run **Approvals:** Process Plan: Date:\_\_\_\_\_ **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ **Tool ID** Reject Tool # Plan Accept Reject Insp. **Work Center ID** Description **Run Hours** Code Qty Qty Stamp Number 120 QC9- Inspect visual per QSI004- Fusion Welds 0.00 \*120\* 14-07-14 OC 0.00 Memo **Quality Control** 

130

QC6- Inspect dimensions to drawing

0.00

\*130\* QC

Quality Control

Memo

0.00

(1) 14-07-14

140

Chemical Conversion Coat per OSI005 4.1

0.00

\*140\* HandFinish

Memo

0.00

10 76147-15

Hand Finishing

Page 2

Date: Date: WORK ORDER NON-CONFORMANCE / UPDATE												
WORK ORDER NON-CONFORMANCE / UPDATE	AEROSPACE											
QA Closed: Date: Work Order update only	<u>/                                    </u>											
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Part No. Scrap Machining Small Fab Prod. Eng. Co												
Use-as-is Thermoforming Finishing Rec/Store/Packag												
NCR No Suspected Unapproved Large Fab Composite Supp	lier											
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	Wrong Stock Pulled											
Crushing Countersink Misaligned/off center Positioned Wrong Heat Treat Cut Too Short Mislabeled Power Loss/Surge	Other											
Inspection Strip in Tube Drawing Misread												
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Turning Sequence Finish Out of Calibration												
Wave/Twist in Tube Fit/Function Out of Sequence												

Work Order ID 119494 \*119494\* Page 3 Friday, May 16, 2014 12:51:43 PM D3484-041 Accept Item ID: \*N900040100\* Setup Start **Revision ID:** Stop Item Name: Tail Light Fairing Assembly, LH \*10\* **Start Date:** 5/30/14 **Start Oty: 10.00 Cust Item ID:** Required Date: 5/30/14 Req'd Oty: 10.00 \*10\* **Customer:** Reference: Run Start Date: \_\_\_\_\_ Process Plan: **Tooling: Approvals:** Date: Stop OC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. **Work Center ID** Description Qty Number Run Hours Code **Qty** Stamp 150 QC7-Inspect Chemical Conversion Coat 0.00 \*150\* 0.00 Memo **Ouality Control** 160 0.00 \*160\* Small Fab 0.00 Memo Small Fab 1-Install Nut Plates as per Dwg D3484 170 QC5- Inspect part completeness to step on W/O

\*170\*

Quality Control

Memo

DQA:		· . <del>-</del>	Date:		WORK ORDER NON-CONFORMANCE / UPDATE									
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Work Order ID 119494

\*119494\*

Page 4 Friday, May 16, 2014 12:51:43 PM D3484-041 Accept Item ID: \*N900040100\* Setup Start **Revision ID:** Stop Item Name: Tail Light Fairing Assembly, LH \*10\* **Start Date:** 5/30/14 **Start Oty: 10.00 Cust Item ID:** Required Date: 5/30/14 Req'd Oty: 10.00 \*10\* **Customer:** Reference: Start Run Date: **Tooling:** Approvals: Process Plan: Date: Stop Date: SPC (Y/N): OC: Date: Sequence ID/ Operation Set Up/ Tool ID Plan Reject Reject Tool# Accept Insp. **Work Center ID** Number Stamp Description Run Hours Qty Oty Code 200 0.00 \*200\* Packaging 0.00 Memo Identify as per dwg and Stock Packaging Location: 220 QC21- Final Inspection - Work Order Release 0.00 MUS 14-07-16 OC 0.00 Memo **Ouality Control** 

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	Wave/Twist in Tube					Fit/Function	1	Out of Sequence									

Page 1

Work Order ID: 119494

\*119494\* `

Parent Item:

D3484-041

\*D3484-041\*

Parent Item Name: Tail Light Fairing Assembly, LH

**Start Date:** 5/30/14

Required Date: 5/30/14

**Start Qty: 10.00** 

Required Qty: 10.00

Comments:

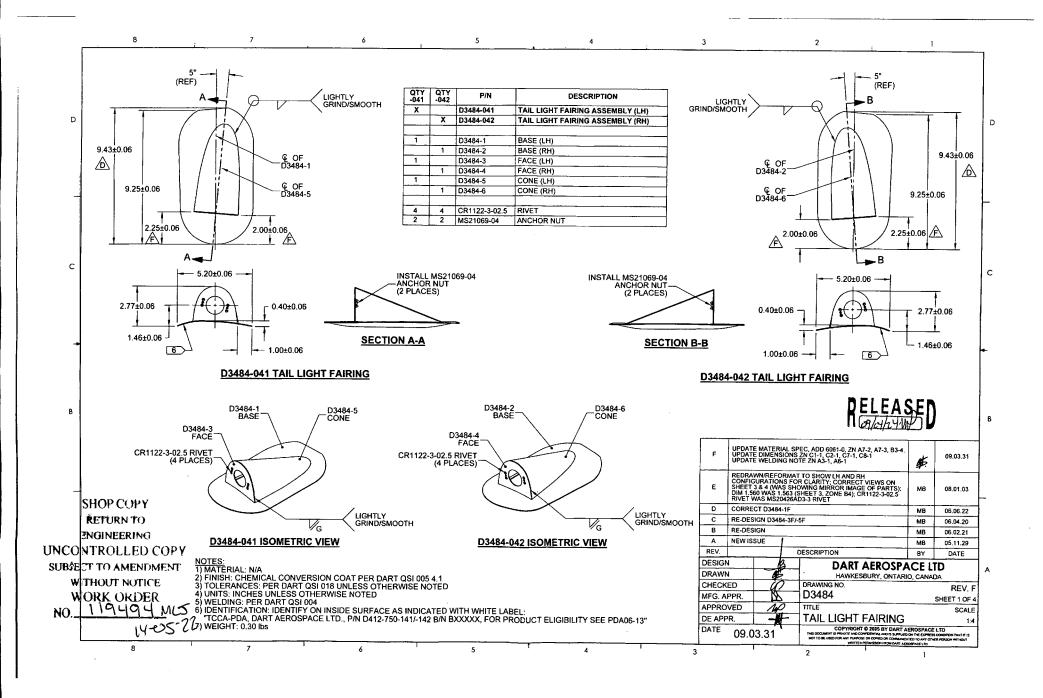
IPP Rev:A New Issue 06-04-11 JLM

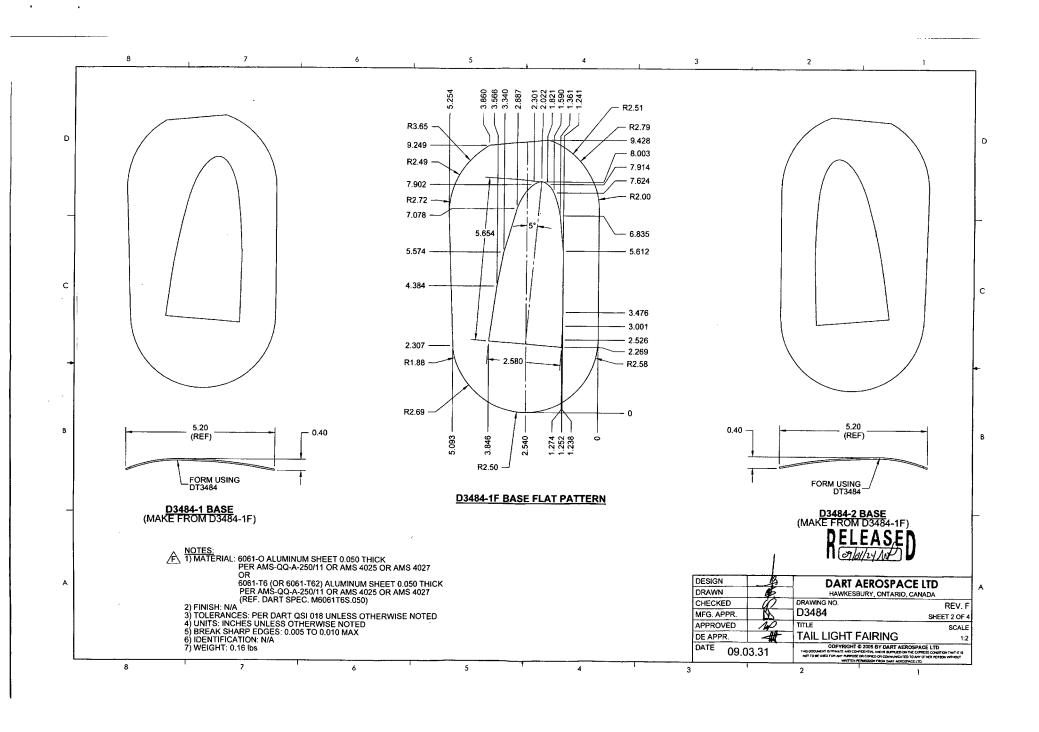
IPP Rev:B 08-01-24 chg rivet to CR1122-3-025 DD verf:EC IPP Rev:C

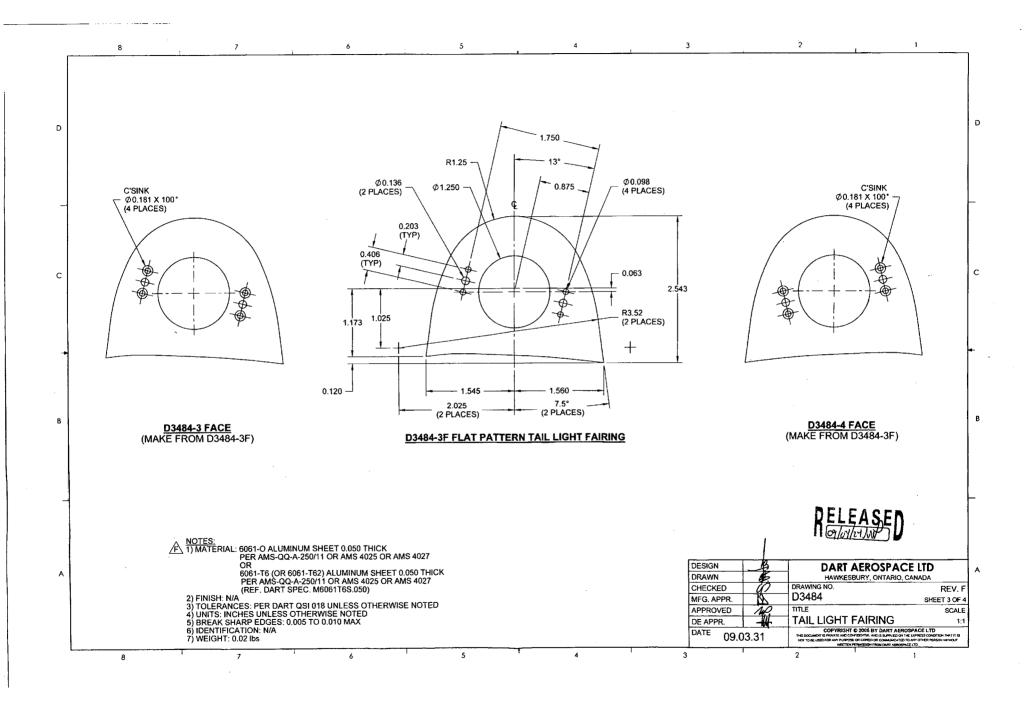
11.03.07 added weld touch up DD verf:EC

	1.05.07 added we.	id toden up D	TOTALE.										
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin • Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3484-041P	*****	Purchased	No			110	Each	0.0000	1	10			
*D3484-04	11P*								**	10	x 8	04	<u>-6-</u>
MS21069-04		Purchased	No	,		160	Each	27.0000	2	20			
*MS21069 ANCHOR NUT	)-N4*					• .		,	**		FF	14-0	7-16
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				ST277			15				_		
					m128398	•	15		_	15	_		
				ST317			12				_		
					124316		2				_		
CR1122-3-02.5			.,		m127580		10		_	_5	_		
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*CR1122-:	3-02 5*								**		F	F 14-	07-10
•				Location	<u>1</u>	Loc	<u>Oty</u>	Loc Code					
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	Wave/Twist in Tube					Fit/Function		Out of Sequence					









180 AVENUE LABROSSE

POINTE CLAIRE, QC H9R 1A1

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

# PURCHASE ORDER

#### Purchase Order ID PO24312

Purchase Order Date 5/23/2014 PO Print Date 5/23/2014

Page Number 1 of 2

Order From :

VC-GFI001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 



**Contact Name** 

**Vendor Phone** 

514 630 4877

Buver

Chantal Lavoie

**Customer POID** 

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Ship To Contact Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	
1 1	D3484-041P	Tail light Fairing	6/17/2014		10.00	
			Yes 6/17/2014		Each	

AS PER DWG D3484 REV. F B119494

FORMED & WELD AS PER QSI 005 CHEMICAL CONVERSION, NUTPLATE AND POWDER COAT TO BE DONE AT DART

Line Total:

PO Unit Price

\$2,800.

Extend Pri

\$2,800.

2 D3484-042P v

Tail Light Fairing

6/17/2014

6/17/2014

Yes

10.00 / Each

\$280.00

\$280.00

\$2,800.

AS PER DWG D3484 REV. F B119779

FORMED & WELD AS PER QSI 005 CHEMICAL CONVERSION, NUTPLATE AND POWDER COAT TO BE DONE AT DART

SPHG HE Line Total:

\$2,800.

Note:



#### 180 AVENUE LABROSSE POINTE-CLAIRE, QC, CANADA H9R 1A1 TÉL.:(514) 630-4877 - FAX:(514) 630-4849



### **BON DE LIVRAISON /SHIPPING MEMO**

DATE DE LIV	RAISON/SHI MO - MO	PPINGDATE AN. : YR	N' DEBONIDE LIVRAISON S SHIPPING MEMO NO	PAGE
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539573 | 1/1

GFI est une division de Thomas & Betts Limitée / GFI is a division of Thomas & Betts Limited

VENDU À /SOLD TO

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7 EXPÉDIÉ À ISHIP TO

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

DART GFI-0299 0.28665 PO24312		CODE DE CLIENT CUSTOMER CODE	N° DE CONTRAT JOB NO	VOTI YOUR	RE N° DE CO PURCHASE	MMANDE ORDER NO		EXP St	ÉDIÉ PAR HP VIA
D3484041P  TAIL LIGHT FAIRING  ITEM 1 C OF C REQ'D  MFG. JOB# JON 9 (10 10 00 00 00 00 00 00 00 00 00 00 00 0	DART	GFI-0299	0286665	- <del>-</del>	PO243	12			
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# CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



180 LABROSSE AVENUE POINTE CLAIRE, QC H9R 1A1

DATE

20 JUNE 2014

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

	QUANTITY  10 PCS	PURCHASE PO243		PART NUMBER  D3484041P	REV <b>F</b>	NAME  TAIL LIGHT FAIR	DWG ISSUE
	MATERIAL			SUPPLIED BY	<b>F</b>		REL. NO.
AL 606	51-T0 (AMS-Q	Q-A-250/11)	<b>J</b> T	W METALS / KAISER AI	LUMINUM		656402A5
F	FIRST ART	PROCI		EPORT ON FILE	<u> </u>	PROCESSOR <b>GFI</b>	release note
WELI	D FOLOWING PAR		DART QSI 004(1 D3484-5 (CONE	) D3484-1 (BASE LH),(1) D3484-3 LH)	]	GFI	N/A
REI	F. GFI MANU	FACTURING J	OB NUMBE	R J0286665-001 (10 PCS)			
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					]		
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G.F.I. Q.C. REP.





ORDER NO.: 70546233 FROM: ATLA PAGE 1

CUST NUMBER: 1203148 NET WGT:

68.152 REQ.DATE: 06/11/14 CONFIRMED

SOLD TO:

GFI INC

180 AVE. LABROSSE

POINTE CLAIRE QC
CANADA CN H9R 1A1

ÝPIONTE CLAIR QC CANADA

SHIP TO:

GFI INC

CN H9R 1A1

180 AVE LABROSSE

WIDTH LENGTH 48

SALESPERSON: DEANNA PIMM SHIP BY: 06/05/14
TERMS: 1% 10 NET 30 VIA: COM CAR-SPECIF
F.O.B.: SHIPPING POINT FREIGHT: COLLECT
CUST ORD NO.: 0084310 RELEASE NO.:
RECEIVING PHONE: 514 630-4877
LINE ITEM DESCRIPTION WIDTH LENGTH

0001 76409 60610 ALM SHT STENCILLED .0500

48 144

WT

PCS

ORD QTY INVOICE QTY SHIPPED QTY WT 2.000 EA 68.152 LB 68.152 LB 68.152 PART#: AS05148144PM

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00

PO:49306569 HT:656402A5 PC: 2 CUSTOMER QTY: UOM

MLT:UNITED STATES MFG:UNITED STATES SLB/CL:KAISER\*34.076#EA\*

SHIP VIA UPS-SCS DEFERED ACCT# 543483804 OR YELLOW COLLECT CLEAR CUSTOMS THRU CONSIGNEE'S BROKER: DHL GLOBAL FORWARDING ISABELLE 514-734-4534 OR SYLVAIN 514-734-4527 FAX 514-344-8705

SHIP TO:

TW METALS 1200 BLAKE DRIVE WICHITA, KS 67219

SOLD TO:

TW METALS INC THE ARBORETUM 760 CONSTITUTION DRIVE **EXTON, PA 19341** 

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

# CERTIFIED TEST REPORT

Serial Number 4326313

1					- NUMBER		SHIP	RUN/LOAD:	GOV'T CO	NTRACT NUMBER:	,
CUSTOMER PO NUMBER:		WORK PACK	AGE:	CUSTOMER PAR	(I NUMBER:	i	1028		}		
M49306569				76409	TCLAD:	TEMPE		PRODUCT	ESCRIPTION	ON:	
KAISER ORDER NO:	LINE ITE	M: SHIP DA	TE:	ALLOY:		1 -		HT Flat S			
1164776	1	5-MAF	₹-201	4 6061	BARE	0				LENGTH:	
	QUANTI	TY:	TRUC	K B/L #:	0.0500 I	N		MAMETER/WI 48.000 IN		144.000 IN	(3657.6 MM)
	251 P	CS EST.	2040	6715		1.2700 N	MM)	(1:	219.2 MM)	<u></u>	(300,10

MHU 1749653: LOT 656402A5: 118 pieces; MHU 1762050: LOT 656494A2: 133 pieces;

# **Certified Specifications**

AMS 4025/RevL CMMP 025/RevU ASTM B 209/Rev10

CMMP 019/ReyD

TW METALS

Test Code: 1925

**Test Results** 

Lot: 656402A5

Cast 023

Drop 78

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile: Temper Dir / # Tests LT / 2 (Min:Max) Ultimate KSI (MPA) 18.6:18.7 (128:129)

7.4: 7.5 (51:52)17.6:17.9

Yield KSI (MPA)

25.3:25.8 22.9:25.0

Elongation %

T42

LT / 2 (Min:Max)

35.2:35.8 (243:247)

(121:123)

LT / 2 (Min:Max)

45.2:45.5 (312:314) 37.6:38.1 (259:263) 13.4:13.4

(ASTM E1251)

SI Chemistry: 0.71 Actual(wt%)

FE 0.5

CU 0.31

MG MN 0.08

CR 0.18 1.1

ZN 0.06 0.02

ΤI

ZR 0.00 OTHER 0.05





# CERTIFIED TEST REPORT

Serial Number 4326313

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

Lot: 65649	4A2	Cast	023	Dro	ор 87	<b>(</b> r	ngot 1				M	elted in U	SA
(ASTM E8/B (EN 2002-1) Tensile:	,	ər	LT / 2	/ Tests (Min:Ma (Min:Ma	×)	Ultimate Ki 18.2: 18.3 (125: 126 37.1: 37.3 (256: 259 47.3: 50.3 (326: 347	3 5 5 9)	7.5 : ( 52 : 18.5 : (128 : 41.2	53) : 18.8 : 130)	2	dongation 4.9 : 25 23.1 : 24 12.9 : 13	.1	
(ASTM E12) Chemistry: Actual(wt%		SI 77	FE 0.5	CU 0.32	MN 0.07		CR 0.19	ZN 0.08	TI 0.03	V 0.01	ZR 0.00	тот	OTHER 0.05
		SI	FE	СÚ	MN		CR	ZN	ΤI	٧	zR	OTHER	MAX
6061 MIN(wt%) MAX(wt%)		.40 0.8	0.0 0.7	0.15 0.40	0.00 0.15		0.04 0.35 lemainder	0.00	0.00 0.15	0.00 0.05	0.00 0.05	EACH TOT	0.05 0.15

## ORDER\_COMMENTS

FAR BAA (FAR 52.225-1 BUY AMERICAN ACT-SUPPLIES)

DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL. OF PAYMENTS PROG FAR TAA (FAR 52.225-5 TRADE AGREEMENTS)

#### **TEST NOTES**

6061 sheet or plate certified to AMS 4025, AMS 4026, or AMS 4027 also meets applicable requirements of AMS-QQ-A-250/11, Rev. A.



Kalser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

\* hat been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.

\* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and mosts the requirements of DFARS 252.225 for domestic content.

was melted in the United states of America o

JAMES HEMENWAY, LABORATORIES SUPERVISOR

